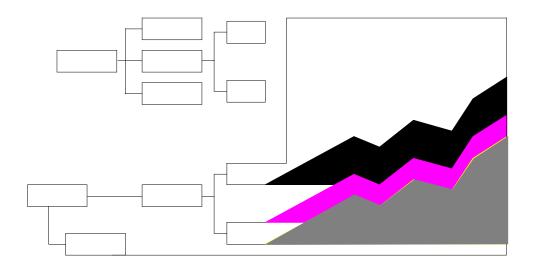
Monthly Summary of

Program Financial and Budget Information

FY 2000 Year-end Report



Office of Civilian Radioactive Waste Management Office of Program Management and Administration

Foreword

The *Monthly Summary of Program Financial and Budget Information* is a compendium of program-level financial and budget information which is intended to assist the Director, OCRWM, in managing the program. It utilizes the Program Work Breakdown Structure and the Budget and Reporting codes instituted at the start of FY 1997.

The report provides a variety of financial and budget-related data, including Nuclear Waste Fund status, Total System Life Cycle Cost (TSLCC) estimates, historical data on cost and budget, and current year obligations and costs. Major sources of data include the Financial Information System (FIS) and the Approved Funding Program (AFP).

The report focuses on the program level; it is not meant to duplicate more detailed project or contractor reporting.

Questions or comments regarding the *Monthly Summary of Program Financial and Budget Information* should be forwarded to the Director, Program Management Division, RW-53.

Monthly Summary of Program Financial and Budget Information

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Monthly Summary of Program Financial and Budget Information

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FY 2000 - FY 2001 BUDGET FORMULATION SUMMARY

(dollars in thousands)

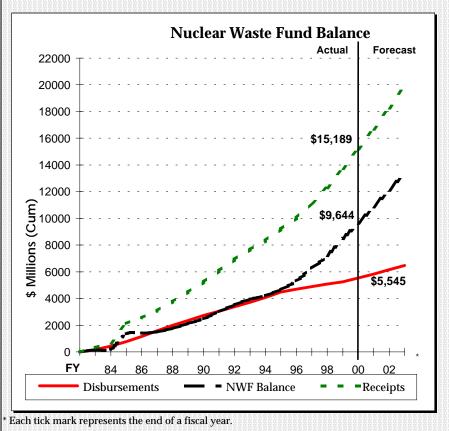
					(4011415 11	r tirouburius)						
			000 CONGRESS						001 CONGRES			
	FY 1998 Enacted	FY 1999 Enacted	FY 2000 Budget	FY 2001 Budget	FY 2002 Budget	FY 2000 ENACTED	FY 1999 Enacted	FY 2000 Enacted	FY 2001 Budget	FY 2002 Budget	FY 2003 Budget	FY 2001 ENACTED
PROGRAM ELEMENT	Appropriation	Appropriation	Request (b)	Request (c)	Request (c)	Appropriation (f)	Appropriation (h)	Appropriation (i)	Request	Request (j)	Request (j)	Appropriation (l)
YUCCA MOUNTAIN SITE CHAR. PROJECT	\$267,710	\$282,414	\$331,667	\$279,698	\$267,911	\$281,175	\$281,879	\$281,175	\$358,306	\$357,917	\$349,115	\$313,542
WASTE ACCEPTANCE, STORAGE AND TRANSPORTATION	\$5,947	\$1,850	\$5,730	\$22,230	\$34,550	\$1,795	\$1,850	\$1,795	\$3,800	\$6,118	\$22,050	\$2,661
ACCELERATOR TRANSMUTATION OF WASTE		\$4,000				\$0	\$4,000					
PROGRAM INTEGRATION:												
Quality Assurance	\$0 (d)		\$0	\$0	\$0	\$0	\$0 (\$0	\$0	\$0	\$0
Program Management	\$5,049	\$6,009	\$6,260	\$6,260	\$6,390	\$4,761	\$6,009	\$4,761	\$5,921	\$6,388	\$6,390	\$6,233
Human Resources & Admn.	\$4,814	\$5,241	\$5,532	\$5,532	\$5,402	\$3,860	\$5,241	\$3,860	\$5,845	\$5,693	\$5,561	\$5,838
Total Program Integration	\$9,863	\$11,250	\$11,792	\$11,792	\$11,792	\$8,621	(e)	(e)	(e)	(e)	(e)	(e)
PROGRAM DIRECTION	\$62,480	\$58,486	\$59,811	\$56,280	\$55,747	\$59,584	\$58,486	\$59,584	\$63,628	\$61,384	\$59,884	\$62,800
Total Program Integration	(e)	(e)	(e)	(e)	(e)		\$69,736	\$68,205	\$75,394	\$73,465	\$71,835	\$74,871
TOTAL PROGRAM	\$346,000	\$358,000	\$409,000	\$370,000	\$370,000	\$351,175	\$357,465	\$351,175	\$437,500	\$437,500	\$443,000	\$391,074
TOTAL FEDERAL STAFFING (FTEs)	202	196	195	195	195	195	183	196	200	(k)	(k)	200

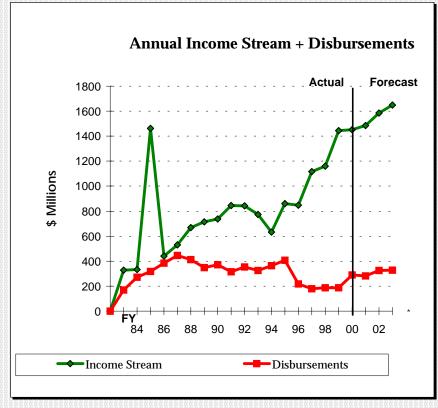
Note: This chart uses the actual structure (i.e. Program Elements) used in the budget submissions in the OCRWM budget formulation process.

- (a) Funding for selected support service contracts has been removed from the YMP, WAST, QA, PM, and HR&A elements and added to the Program Direction element. The funding moved for each fiscal year follows. For FY 1998: YMP (\$27,860), WAST (\$870), QA (\$1,539), PM (\$1,925), and HR&A (\$3,680). For FY 1999: YMP (\$27,244), WAST (\$450), QA (\$1,710), PM (\$1,446), and HR&A (\$3,691). For FY 2001: YMP (\$22,829), WAST (\$270), QA (\$1,710), PM (\$1,446), and HR&A (\$3,691). For FY 2001: YMP (\$23,539), WAST (\$270), QA (\$1,710), PM (\$1,446), and HR&A (\$3,691).
- (b) This sum includes a request for new budget authority totaling \$370 million, as well as a request that an additional \$39 million be provided from \$85 million in unobligated balances remaining from the FY 1996 Defense Nuclear Waste Disposal Appropriation (Public Law 104-46) and transferred to the Nuclear Waste Disposal account in FY 2000.
- (c) The outyear budget request shown are preliminary and do not necessarily reflect program requirements. Future budget requests for the program have yet to be established and will be determined through the annual budget process.
- (d) Starting in FY 1998, the Quality Assurance budget is included in the Program Direction account under support services.
- (e) Program Direction is included in Total Program Integration in the FY 2001 Congressional Budget Request, but not in the FY 2000 Congressional Budget Request.
- (f) Sources of the appropriation are H.R. 2605, the Energy and Water Development Appropriations Act, 2000 (Sent to President) which was enacted unchanged in Public Law 106-60, and Public Law 106-113 which rescinded \$1,325,000. Allocations to each Program Element are from the FY 2001 Congressional Budget Request Level 3 Chart, Version One, dated January 14, 2000.
- (g) Funding for selected support service contracts has been removed from the YMP, WAST, QA, PM, and HR&A elements and added to the Program Direction element. The funding moved for each fiscal year follows. For FY 1999: YMP (\$27,244), WAST (\$450), QA (\$1,710), PM (\$1,446), and HR&A (\$3,425). For FY 2000: YMP (\$27,600), WAST (\$386), QA (\$1,710), PM (\$1,315), and HR&A (\$3,795). For FY 2001: YMP (\$29,079), WAST (\$700), QA (\$1,710), PM (\$1,529), and HR&A (\$4,110). For FY 2002: YMP (\$26,241), WAST (\$270), QA (\$1,710), PM (\$1,446), and HR&A (\$4,237). For FY 2003: YMP (\$23,409), WAST (\$450), QA (\$1,710), PM (\$1,446), and HR&A (\$4,369).
- (h) \$535K was rescinded from the FY 1999 Nuclear Waste Disposal Fund per the Emergency Steel Loan Guarantee and Emergency Oil and Gas Guaranteed Loan Act of 1999 (H.R. 1664).
- (i) Per P.L. 106-113, a general reduction of .038 percent was applied to the Nuclear Waste Fund (\$899K) and the Defense Nuclear Waste Appropriation (\$426K)
- (j) The outyears shown here are preliminary, and do not necessarily reflect program requirements. Future budget requests for the program have yet to be established and will be determined through the annual executive and Congressional budget process.
- (k) FTEs for FY 2002 and FY 2003 were not provided in the Congressional Budget Request.
- (1) Source of the appropriation is H.R. 5483, FY 2001 Energy and Water Development Appropriations, which was enacted in Public Law 106-377. Allocations to each Program Element are from the OCRWM FY 2001 Budget Allocation Chart as of November 13, 2000.

Current Values as of September 30, 2000

NUCLEAR WASTE FUND BALANCE AND INCOME STREAM





Sources: Actual data from the "NWF Summary of Cash Balances" issued monthly by the DOE Office of Chief Financial Officer.

Forecast Disbursements are based on FY2000 appropriations and the OCRWM FY2001 Congressional Budget Request, with appropriations adjusted to disbursements using OMB's simplified (50/50) formula plus \$17 million for appropriations to the NRC and TRB.

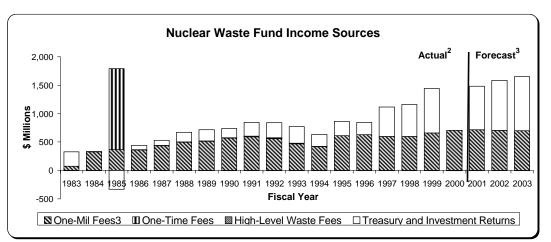
Actual and Forecast disbursements include NRC, NWN, and NWTRB appropriations.

Receipts and Disbursements do not include Defense Nuclear Waste Disposal (DNWD) appropriations of \$100M in FY 1993, \$120M in FY 1994, \$129.430M in FY 1995, \$163.4M in FY 1996, \$200M in FY1997, \$190M in FY 1998, \$189M in FY 1999, and \$111.6M in FY 2000 because these funds do not flow through the Nuclear Waste Fund.

Forecast kWh Fee Receipts are based on the September 2000 memo from EIA to RW, re: 'Energy Information Administration Nuclear Waste Fund Revenue Projections.'

Investment returns include coupon interest receipts; net premiums and discounts paid or received on bills, notes, and bonds; and amortized discounts on zero-coupon bonds. The NWF Balance includes the face value of bills, notes, and bonds and the purchase price plus amortized discount of zero-coupon bonds.





\$ Millions

	Spe	nt Nuclear	Fuel Fees	Defense Fees	Treasury Loan		Total		
	One-Mil	One-Time	Cumulative	High-Level	Principal	Investment	Annual	Annual	NWF
Fiscal Year	Fees ³	Fees	Fees	Waste Fees	(Payment)	Returns ⁴	Income	Disbursements ⁵	Balance
1983	74	0	74	0	254	0	327	169	158
1984	330	0	404	0	5	0	334	271	221
1985	367	1,427	2,198	0	-258	-74	1,463	317	1,367
1986	362	6	2,566	0	0	73	441	385	1,423
1987	435	6	3,007	0	0	89	530	446	1,507
1988	498	6	3,511	0	0	165	669	412	1,764
1989	513	6	4,030	0	0	196	715	349	2,130
1990	570	6	4,606	0	0	161	737	372	2,495
1991	594	6	5,206	5	0	241	846	315	3,026
1992	560	6	5,772	8	0	268	842	354	3,514
1993	466	11	6,249	0	0	296	773	325	3,962
1994	418	4	6,671	0	0	210	632	364	4,229
1995	615	0	7,286	0	0	246	861	408	4,682
1996	633	1	7,920	0	0	212	847	218	5,311
1997	596	0	8,516	0	0	520	1,116	178	6,249
1998	600	0	9,116	0	0	561	1,161	186	7,224
1999	662	0	9,778	0	0	780	1,443	186	8,481
2000	706	-4	10,480	0	0	752	1,453	290	9,644
Cum-to-date ²	8,999	1,481	10,480	13	0	4,697	15,189	5,545	9,644
		ı	I	Forecast					
2001	717	0	11,197	0	0	767	1,484	282	10,846
2002	704	0	11,901	0	0	880	1,584	325	12,105
2003	702	0	12,603	0	0	948	1,650	328	13,428

¹ Current Values as of September 30, 2000. Rows may not add due to independent rounding. Receipts and Disbursements do not include Defense Nuclear Waste Disposal appropriations of \$100M in FY 1993, \$120M in FY 1994, \$129.430M in FY 1995, \$163.4M in FY 1996, \$200M in FY 1997, \$190M in FY 1998, \$189M in FY 1999, and \$111.6M in FY 2000 because these funds do not flow through the Nuclear Waste Fund.

1-3

² Actual data from the "NWF Summary of Cash Balances" issued monthly by the DOE Office of Chief Financial Officer.

³ Forecast kWh Fee Receipts are based on the September 2000 memo from EIA to RW, re: 'Energy Information Administration Nuclear Waste Fund Revenue Projections.'

⁴ Investment returns include coupon interest receipts; net premiums and discounts paid or received on bills, notes, and bonds; and amortized discounts on zero-coupon bonds. The NWF Balance includes the face value of bills, notes, and bonds and the purchase price plus amortized discount of zero-coupon bonds.

⁵ Forecast Disbursements are based on FY2000 appropriations and the OCRWM FY2001 Congressional Budget Request, with appropriations adjusted to disbursements using OMB's simplified (50/50) formula plus \$17 million for appropriations to the NRC and TRB. A ctual and Forecast disbursements include NRC, NWN, and NWTRB appropriations, interest on Treasury loans and interest refunded to utilities. Includes Program Expenditures, Treasury Loan Interest (FY84 \$3M, FY85 \$5M) and Interest Refunded to Utilities (FY88 \$7M, FY89 \$1M, FY92 \$7M, FY93 \$41M, FY94 \$48M, FY95 \$19M, FY96 \$1M).

Draft 1999 Total System Life Cycle Cost Report

Life Cycle Costs (\$B)		
	Case 1	Case 2
	50-Year	125-Year
	Operation	Operation
	(1983-2069)	(1983-2144)
Program Integration/Non-OCRWM (NRC, NWTRB)	3.7	4.2
Repository	37.5	41.9
National Transportation	5.6	5.6
Nevada Rail	0.8	8.0
Institutional	4.0	4.4
1999 TSLCC Total	51.6	56.9
Historical Program Cost, 1983 - 1999 ¹	7.7	7.7
Program Cost, Case 1 (2000 - 2069) Case 2 (2000 - 2144)	43.9	49.2
Total Estimate for Program ²	51.6	56.9

Note: All costs are in FY 1999 dollars.

Source: FY 2001 Appropriations Briefing, February 24, 2000.

¹ Historical program cost is \$6.3 Billion in year-of-expenditure dollars, as of 1999.

² The Total Estimate in the 1998 TSLCC was \$43.69B in FY 1998 dollars (\$44.41B in FY 1999 dollars) for a 100-year operation. The 1998 TSLCC was based on the design in the *Viability Assessment of a Repository at Yucca Mountain.*

MANPOWER - FEDERAL PERSONNEL

(Nuclear Waste Fund)

Office	FY 2000 Planned FTEs	Approved FY2000 Ceiling (c)	Total On Board (c)
Office of the Director	(a)	(a)	12
Office of Quality Assurance (b)	(a)	(a)	10
Office of Acceptance, Transportation, & Integration Office of Program Management & Administration	(a) (a)	(a) (a)	18 26
Yucca Mountain Site Characterization Office	(a)	(a)_	103
Subtotal	176	178 (d)	169
Nevada Operations Office	6	6	6
Subtotal	6	6	6
DOE HQ Matrix Support			
CI/PA	2	2	2
EI	1	1	1
GC	5	5	5
EH	1	1	1
MA	4	4	4
CR	2	2	2
Subtotal	15	<u>15</u>	15
TOTAL	197	199	190

Source: RW-56 Human Resources Division as of September 24, 2000.

⁽a) FY 2000 Planned FTEs and Target are not established at the office level
(b) Ten FTEs support YMSCO; duty stationed in Nevada
(c) Head count - Approved Workforce 21 Staffing Ceiling (3/31/99)
(d) Reflects the transfer of one FTE to the Office of Nuclear Energy, Science and Technology to support Accelerator Transmutation of Waste functions.

MANPOWER - CONTRACTOR PERSONNEL

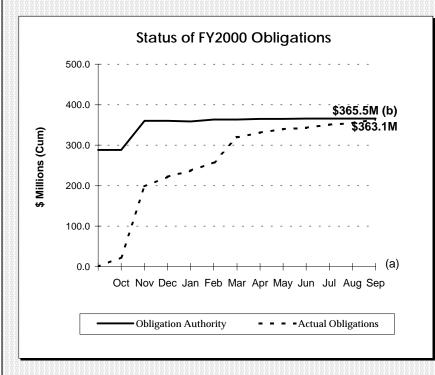
Contractor	Actual FTEs (FY 1997)	Actual FTEs (Sep 1997)	Actual FTEs (FY 1998)	Actual FTEs (Sep 1998)	Actual FTEs (FY 1999)	Actual FTEs (Sep 1999)	Actual FTEs (FY 2000)	Actual FTEs (Sep 2000)
TRW Environmental Safety Systems (TESS)	1,739.5	2,222.5	1952.6	2017.7	1697.1	1547.9	1732.9	1850.1
USGS	124.2	122.3	115.5	115.1	108.4	109.6	85.2	79.1
KENROB and Associates, Inc.	71.3	95.5	52.6	44.8	30.1	0.0	0.0	0.0
RSIS					18.9	52.5	57.3	53.7
SAIC/QATSS	52.5	82.0	77.8	82.0	78.9	100.4	77.3	112.3
Booz-Allen & Hamilton Inc. (a)	27.2	49.0	72.6	49.0	85.4	81.6	90.1	108.3
Alpha Services	26.8	25.0	26.9	25.0	26.8	29.0	27.7	28.2
Jason & Associates	12.4	24.4	50.8	24.4	40.0	21.1	33.5	57.4
Other (Minors) (b)	7.7	8.5	6.7	7.5	5.5	5.6	5.0	6.8
	2,061.6	2,629.2	2,355.5	2,365.5	2,091.1	1,947.7	2,109.2	2,295.7

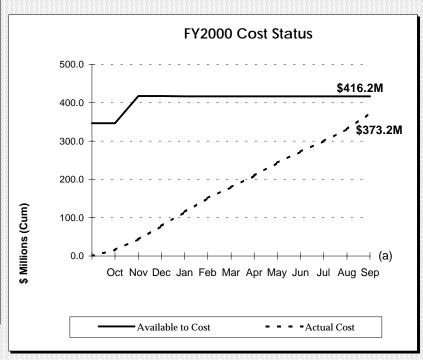
Columns may not add due to independent rounding.

Sources: Yucca Mountain Site Characterization Project Multi-year Planning System (MYPS) as of September 30, 2000 plus TRW Environmental Safety Systems Inc. (TESS) reported indirect labor as of September 30, 2000.

⁽a) Contract awarded 2nd Quarter, FY 1997(b) Includes Wackenhut Services, Inc. and Quality Services Associates Inc.

FY2000 OBLIGATION AND COST STATUS PROGRAM

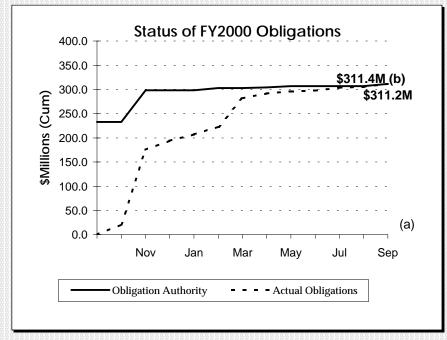


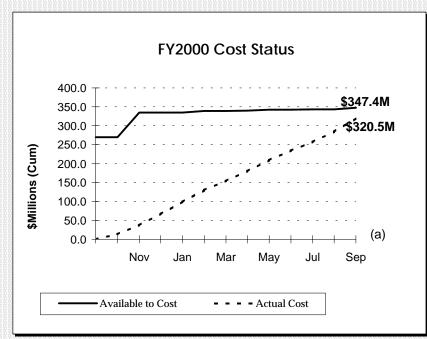


- (a) Each tick mark represents the end of a calendar month.
- (b) Total Obligational Authority (TOA) includes \$6.8M of prior year obligations which have been de-obligated during FY 2000.

Note: Quantities shown are based on the FY 2000 September AFP and the September 30, 2000 FIS report.

FY2000 OBLIGATION AND COST STATUS YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT



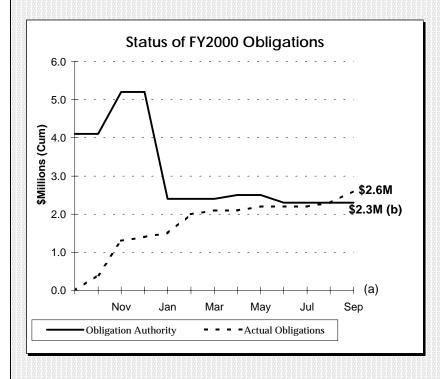


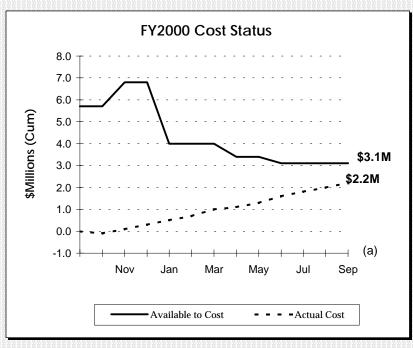
Note: Charts do not include Yucca Mountain quality assurance.

- (a) Each tick mark represents the end of a calendar month.
- (b) Total Obligational Authority (TOA) includes \$6.2M of prior year obligations which have been de-obligated during FY 2000.

Note: Quantities shown are based on the FY 2000 September AFP and the September 30, 2000 FIS report.

FY2000 OBLIGATION AND COST STATUS WASTE ACCEPTANCE, STORAGE, AND TRANSPORTATION



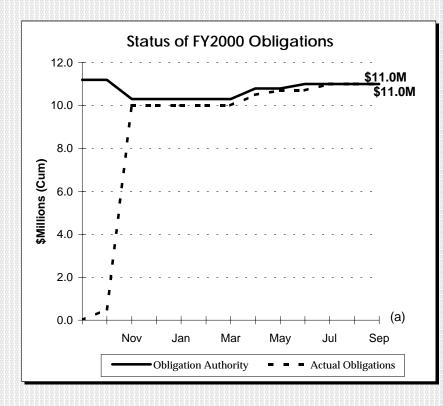


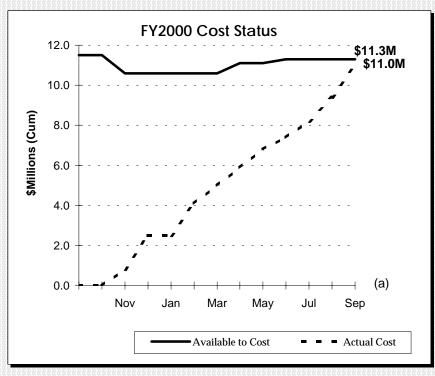
Note: Charts do not include WAST quality assurance.

- (a) Each tick mark represents the end of a calendar month.
- (b) Total Obligational Authority (TOA) includes \$0.1M of prior year obligations which have been de-obligated during FY 2000.

Note: Quantities shown are based on the FY 2000 September AFP and the September 30, 2000 FIS report.

FY2000 OBLIGATION AND COST STATUS QUALITY ASSURANCE



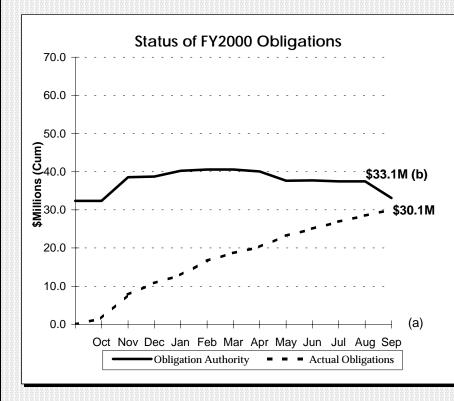


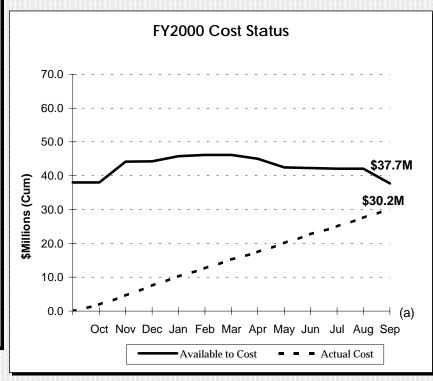
Note: Charts include Yucca Mountain and WAST quality assurance.

(a) Each tick mark represents the end of a calendar month.

Note: Quantities shown are based on the FY 2000 September AFP and the September 30, 2000 FIS report.

FY2000 OBLIGATION AND COST STATUS PROGRAM MANAGEMENT

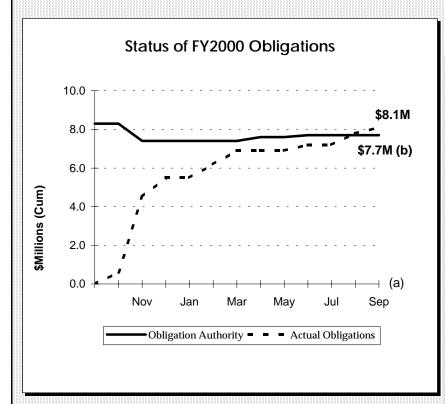


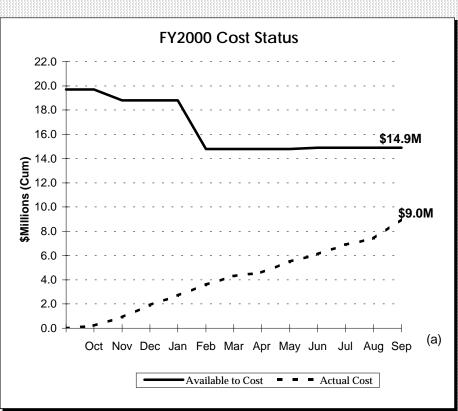


- (a) Each tick mark represents the end of a calendar month.
- (b) Total Obligational Authority (TOA) includes \$0.4M of prior year obligations which have been de-obligated during FY 2000.

Note: Quantities shown are based on the FY 2000 September AFP and the September 30, 2000 FIS report.

FY2000 OBLIGATION AND COST STATUS HUMAN RESOURCES AND ADMINISTRATION





- (a) Each tick mark represents the end of a calendar month.
- (b) Total Obligational Authority (TOA) includes \$0.1M of prior year obligations which have been de-obligated during FY 2000.

Note: Quantities shown are based on the FY 2000 September AFP and the September 30, 2000 FIS report.

EXTERNAL ACTIONS EXTERNAL ACTIONS Issue I B. F. Directory Graph MANAGEMENT EXECUTE: Second Secon	NRC publisl confidence r Draft Mission Rusche name rector of OCR Issue final ruidelines (10 Cue Draft EAs f 3 Identify 9 po suitable sites	d first WM5/84t t epository siting FR 960) 12/84 or 9 sites 12/84	President au OCRWM to dispose DH u 4/85 Issue Mission Plant 6/85 Issue final geok environ. Char. R t 9/2	Nuclethorizes NRC is W 7/86 for inde u spent fu Issue Draft Mission Plan Amendmen Plan Amendmen Secretar Presiden for chara eports 5/86 YUCCA M HANFOR DEAF SM	ar Waste Technical MRS commission sues first license pendent dry el storage Issue Mission Pl Amendme t 1/87 t 6/87 inal EAs nominates 5 sites approves 3 sites cterization NWPAA mandates ite Char. At Yucca lountain only 12/87t OUNTAIN, NV(TI D, WA (BASALT) ITH COUNTY, TX	Review Board (NWT submits report to Cor NRC publishes confidence rule Issue Man J. Issue Dan Draft Mission Int Plan Amendment to 6/88 Issue SCP 12/88 Issue SCP 12/88 Issue SCP 12/88 Issue Consultation draft Site Char. Plan (SCP) 1/88 Complete ESF-Title I Design 1/88 11/88t t UFF) Issue	update to waste making 9/89u update to waste making 9/89u update the making 9/	nprovement Strategy 4/90 89 175 ort Issue early evaluati	O Senate confirm ne nuclear waste 1/91 NRC accept 1 OA program (MSIS) 8/90 I Ssue I Missio act 2/91 Amend 1 t 9/9 site suitability on report 2/92 reive air 6/91 permits t ort 10/91 S T	negotiator s OCRWM oraft First n Plan Director ment Forum
EXTERNAL ACTIONS Issue I B. F Dire guin Issue FIRST REPOSITORY Issue sting guide t 2/83 t 3 SECOND REPOSITORY MONITORED RETRIEVABLE STORAGE (MRS)/ MULTI-PURPOSE CANISTER (MPC) Start conce t 2/83	Draft Missior Rusche name rector of OCR Issue final r uidelines (10 C) te Draft EAs f Identify 9 po suitable sites	d first WM5/84t t epository siting FR 960) 12/84 or 9 sites 12/84 tentially Issue draft area re report (12 areas i	OCRWM to dispose DH u 4/85 Issue Mission Plant 6/85 Issue final geole environ. Char. R t 9/2	Industrial	MRS commission sues first license pendent dry el storage Issue Mission Pl Amendme t 1/87 t 6/87 sinal EAs nominates 5 sites approves 3 sites cterization NWPAA mandates site Char. At Yucca lountain only 12/87 (OUNTAIN, NV(TI D, WA (BASALT) ITH COUNTY, TX	submits report to Cor NRC publishes confidence rule Issue Man J. Issue Dan Draft Mission nt Plan Amendment t 6/88 Issue SCP 12/88 Issue consultation draft Site Char. Plan (SCP) 1/88 Complete ESF Title I Design 1 1/88 11/88t t UFF) Issue	update to waste making 9/89u update to waste making 9/89u update the making 9/	nprovement Strategy 4/90 Awa Cont 175 ort Issue early evaluate issues site Rec analysis Rec analysis Quality Design summary re	O Senate confirm ne nuclear waste 1/91 NRC accept 1 OA program (MSIS) 8/90 I Ssue I Missio act 2/91 Amend 1 t 9/9 site suitability on report 2/92 reive air 6/91 permits t ort 10/91 S T	s D. Leroy negotiator s OCRWM oraft First plan Director Forum 1 t 5/92 Receive final perm from Neva t 3/92 tart ESF itle II (KD2)
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SECOND REPOSITORY MONITORED RETRIEVABLE STORAGE (MRS)/ MULTI-PURPOSE CANISTER (MPC) Start conce t 2/83	g elines	report (12 areas i	ecommendation — n 7 states) 1/86	- P	EXI				<u> </u>	12/91
SECOND REPOSITORY MONITORED RETRIEVABLE STORAGE (MRS)/ MULTI-PURPOSE CANISTER (MPC) Start conce t 2/83	g elines		n 7 states) 1/86		1	LORATORY STU		SF) ALTERNATIV rt new surface-based		ESF Start 10 ACDt
MONITORED RETRIEVABLE STORAGE (MRS)/ MULTI-PURPOSE CANISTER (MPC) Start conce t 2/83		decine final region to	1	second	ne site-specific work repository indefinite	ely	Sta		V SURFACE-B	
RETRIEVABLE STORAGE (MRS)/ MULTI-PURPOSE CANISTER (MPC) Start conce t 2/83	83	screening methodo	otarea ology t 4/85		WPAA terminates epository program t	12/87			Award first—	ASED TESTI
RETRIEVABLE STORAGE (MRS)/ MULTI-PURPOSE CANISTER (MPC) Start conce t 2/83		Issue MRS	Environmental – Assessment 2/86	\vdash	-3/87 Submit facility at Oa	proposal for an MRS k Ridge, TN		Ph	ase II grants rd first Phase –	Generic MR: Conceptua
MULTI-PURPOSE CANISTER (MPC) Start conce t 2/83		Issue report on nee feasibility of a	ed for & 6/85			Oak Ridge proposal annulled & revoked by NWPAA	Issue re 5/89DOE po	port on Announce	grants 10/91	Conceptua Design Repor
t 2/83	· MDC	feasibility of a	an MRS t	ť	t ^l 12/87t			cility availabili	ty 6/91 t t	t' t
	ceptual design	1	9/85]	ssue Clinch River M	RS s	Start MRS ystems study t 6/88		MRS systems summary report	Ca	Iulti-Purpose nister (MPC)
		ŲAL DESIGN (R.M		conceptual design rep	ort	<u> </u>	STEMS STUDY		feasibility	study 10/92t
								Issue draft Section 1 for public c	80(c) strategy —	1
		Icene draft	Institutional	1/86 Issue Business	Dlan		Start LWT & rail/	Announce		Issue final Section 180(c) strategy 11/92
TRANSPORTATION		issue drait	Plan 9/85t	t studies	Pian	barg	e cask final design	t technolog	y caskst	t t
					LEGAL-WEIGHT	TR <u>UCK (LWT) C</u>	ASK PRELIM. DES	SIGN LWT	CASK FINAL I	DESIGNS
					R	AIL/BARGE CASK	PRELIM. DESIG	N RAIL/B	ARGE CASK F	INAL DESIGN
			}		1					Begin receiving
WASTE			1 1 1	1						iccciving
ACCEPTANCE t	Sign standa with utilities	d contract	Rec 6/85 fee	eive one-time payment	Issue first annual capacity report t 6/87			. Is	sue acceptance ranking 12/91t	delivery 1/92 commitme

	1993	1994	1995	1996	1997	1998	1999
LEGISLATION							
ELGISLATION	Senate Confirms R. Stalling as the Nuclear Waste Negotiator	<u></u>	olders meeting Site Suitability meetings (a	N	EPA Published No	sued Draft Environmental Im pice of Proposed 40 CFR 197 oposed 10 CFR 63 Rulemakir	Rulemaking —
EXTERNAL ACTIONS		^{11/93} u u u u	11/94 MPC EIS scoping me	etings (also 12/94)		DOE Issued VA 12/98 u	i
PROGRAM MANAGEMENT	Develope Program Approach D. Dreyfus named 10/93 Director of OCRWMt		—12/94 First OCRWM Program Plan Issued C Technical Suite Re	Plutonium Waste Forms acomplete Baseline 5/96 8/96 Approve wision 2 t t Multi-Ye	ded to CRWMS Baseline- d Program ear Baseline t	12/97	I. Itkin named Director of OCRWM 12/99 t
FIRST REPOSITORY	site s	Released draft ummary report on suitability process t	Approve TSPA-VA	Draft License Application Pl Methodology & Assumptio blish Notice of Proposed 12 10CFR960 Rulemaking †	an Complete 9/97— ns Report 8/97—	OCRWM Accepts Viability Assessment (VA) 9/98 t	Publish Supplemental Notice of Proposed 10CFR960 Rulemaking 11/90t
REI OSITORI	YUCCA MOUNTAIN, N Complete ESF starter tunnel 9/93 Award Tunnel Boring Machine (TBM) Contract 5/93t t to E	D. TDM	Complete GDF Drift# Muck conveyor system installed 7/95 t Drift	Construction 8/96	avation Across the Reposite start ECRB Cross Drift Excavation Drift-Scale Thermal Test th TBM th Portalt 4/97 t	Start Cross Drift TBM Operations 4/98 9/98	
	ESF Issue initial report for Repository/War Advanced Concept	ste Package ual Design (ACD)8/94 t	Complete reposit waste package adv conceptual design	ory & anced 3/96	Complete Phase I Design for VA 9/97 t	Cor App	npleted License dication Design delection Report t 6/99
MONITORED	REPOSITORY DESIGNATION Funding for grants	Office of N Waste Negotiator F	Submit Nuclear Transfer MPC El		to NRC 5/97—	Submit Actinide-Only Burn- Up Credit (BUC) Topical	8 8
RETRIEVABLE STORAGE/MPC	Complete draft MPC conceptual design Issue final MPC feasibility study	Issue RFP Approve		MPC development phased out 7/96	t'	Report Rev. 2 to NRC t 10/4	98
	t 1/93 t 9/93 MPC CONCEPTUAL D	system 6/94 t 9/94 ESIGN (M&O) mplete draft 6/94	t 4/95 Issue Notice of Expression for market-drive appr Issue Section 180(c) Proposed Policy & Proce	of Interest oach 5/96 Notice of RFI	sue Section 180(c) Revised Proposed Id Procedures 7/97 E Draft For RSAs	Issue NWPA Section 180(c) Notice of Revised Proposed Policy & Procedures t 4/98	
TRANSPORTATION	Subr Cask	nit GA-4/GA-9 SARs to NRC CK (LWT) CASK FINAL		4/96 GA-4/9 cask development pha		t 4/98	
	RAIL/BARGE CASK F	INAL DESIGN	E fuel	OE notifies Utilities of acceptance delay 12/96			
WASTE ACCEPTANCE	interin	sue NOI on n spent fuel 5/94 rage facility t	DOI	S. Court rules E must accept 7/96 te by 1/31/98 t			

Page 2 of 2

PROGRAM COST HISTORY (d) (NUCLEAR WASTE FUND AND DEFENSE APPROPRIATION)

(dollars in thousands)

	FY 1983	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY1992	FY 1993	FY1994	FY1995	FY1996	FY1997	FY1998	FY1999	FY2000	TOTAL
OCRWM																			
FIRST REPOSITORY																			
Basalt Project	42,959	60,307	69,848	104,487	128,179	61,707	8,656	4,592	1,368	909	475	221	71	3	0	0	-12	0	483,771
Yucca Mountain Project	50,375	65,285	63,527	89,981	103,172	140,857	180,189	180,564	181,148	189,437	229,053	279,713	377,469	249,298	274,625	341,300	296,542	320,504	3,613,041
Salt Project	64,079	83,838	87,843	98,017	115,070	54,220	9,486	1,468	412	-193	525	-257	282	-155	27	-238	-73	230	514,579
RTP/Technical Support					37,404	47,667	38,072	17,855	5,743	11,335	481	108	533	-2	0	0	17	0	159,213
SECOND REPOSITORY	8,376	17,094	22,370	26,028	6,988	375	58	0	0	0	0	0	-3	5	0	0	0	0	81,291
WAST PROJECT																			
MRS	3,723	10,436	15,339	5,925	1,384	1,364	1,566	2,109	5,459	21,336	15,385	3,698	8,152	114	0	0	-11	0	95,979
Engineering Development (a)	0	0	179	3,097	10,557	7,991	5,323	10,255	9,055	6,398	4,290	12,065	9,709	15,381	947	328	-4	-18	95,551
Transportation System	0	1,541	2,226	5,768	10,835	15,582	25,901	21,628	19,792	16,635	15,149	15,167	10,736	5,665	3,317	2,114	267	-35	172,288
Waste Acceptance (b)											6,630	3,721	4,748	4,195	675	738	972	1,116	22,796
Project Integration (e)													1,785	3,611	1,033	1,752	626	1,003	9,810
Spent Fuel Storage														2,331	3,318	1,588	-187	174	7,224
PROGRAM INTEGRATION																			
Quality Assurance	0	0	0	0	0	136	471	1,588	2,911	3,179	10,593	12,628	11,744	18,297	15,478	10,670	10,513	11,006	109,215
Program Management & Integration (c,e)	8,651	36,382	54,350	64,824	54,909	51,850	60,830	57,978	71,225	66,417	59,347	50,855	51,331	34,845	31,037	33,314	29,791	30,193	848,131
Human Resources & Administration	147	1,108	574	584	686	275	283	7,661	5,287	10,795	28,433	27,096	31,065	10,825	9,344	10,240	7,347	8,996	160,744
TOTAL (OCRWM)	178,311	275,992	316,255	398,711	469,185	382,025	330,836	305,698	302,400	326,248	370,360	405,015	507,622	344,413	339,801	401,806	345,789	373,169	6,373,634
OCRWM																			
NWF Appropriation	178,311	275,992	316,255	398,711	469,185	382,025	330,836	305,698	302,400	326,248	271,093	284,883	381,879	195,486	145,611	193,837	155,196	267,360	5,181,006
Defense Appropriation (f)					-						99,267	120,132	125,743	148,927	194,189	207,969	190,593	105,809	1,192,628
TOTAL (OCRWM)	178,311	275,992	316,255	398,711	469,185	382,025	330,836	305,698	302,400	326,248	370,360	405,015	507,622	344,413	339,801	401,806	345,789	373,169	6,373,634
NON-OCRWM (g)																			
NRC Fees						19,932	18,674	22,870	19,650	19,962	21,100	22,000	22,000	11,000	15,000	15,000	17,000	19,150	243,338
NWTRB							•	2,000	•	3,294	2,060	2,160	2,664	2,531	2,600	2,600	2,600	2,600	25,109
NWN								5,959				1,000	1,000						7,959
TOTAL (NON-OCRWM)						19,932	18,674	30,829	19,650	23,256	23,160	25,160	25,664	13,531	17,600	17,600	19,600	21,750	276,406

Note: Each cost entry is rounded to the nearest thousand. Rows and columns may not add due to this independent rounding.

⁽a) Engineering Development costs include MPC development from FY 1993 through FY 1999.

⁽a) Engineering Development costs include MPC. development in m F1 1993 intrough F1 1999.

(b) Waste Acceptance costs prior to FY 1993 were included in Program Management and Integration.

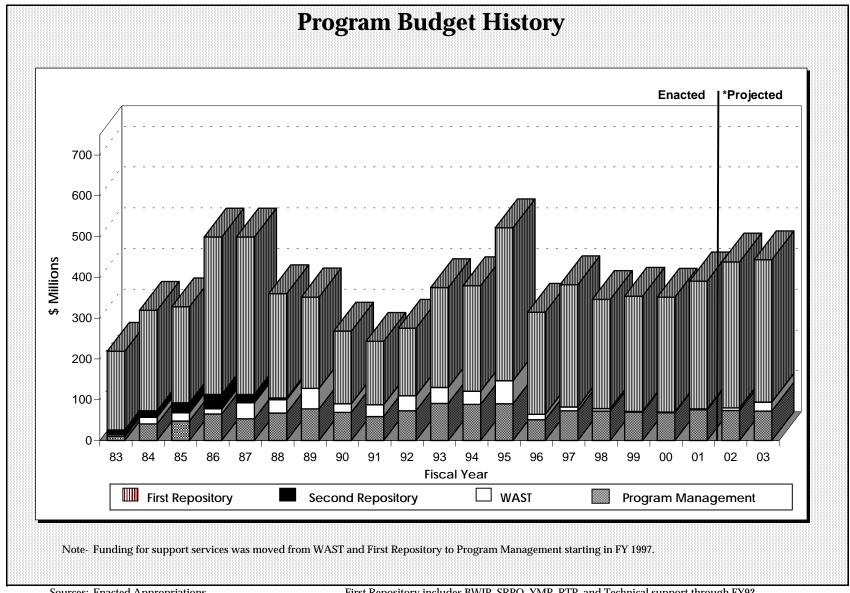
(c) Includes Debt Service from FY 1983 to FY 1985 of \$3.316M, \$4.472M, and \$2.512M, respectively. Does not include FY 1988 and FY 1989 NRC Fees costs of \$38,606,205 recorded in FIS in FY 1989.

(d) All OCRWM cost categories are OCRWM baselined projects except for First Repository, Program Integration, and the subdivisions of the WAST Project. OCRWM costs are from End-of-Year Financial Information Systems Reports. Non-OCRWM costs before FY 1990 are NRC reported costs while after FY 1989 they are appropriations.

⁽e) MRS Project Support costs are in Program Management and Integration in fiscal years 1993, 1994, and 1996 and in WAST Project Integration in fiscal year 1995.

(f) Does not include costs from the \$5M in FY91 and \$7.5M in FY92 deposited into the nuclear waste fund by the Defense Environmental Restoration and Waste Management Program for the defense high-level waste disposal fee.

⁽g) All costs are appropriations, except for NRC Fees in fiscal years 1988 and 1989, which are the actual costs reported by NRC.



Sources: Enacted Appropriations *FY02/03 from the FY 2001 Congressional Budget Request. First Repository includes BWIP, SRPO, YMP, RTP, and Technical support through FY92. Includes \$100M in FY93, \$120M in FY94, \$129.43M in FY95, \$163.4M in FY96, \$200M in FY97, \$190M in FY98, \$189M in FY99, \$111.6M in FY00, \$200M in FY01, \$112M in FY02, and \$113M in FY03 from the Defense Nuclear Waste Disposal Appropriation. Does not include \$4M appropriated in FY99 from general revenues to assess accelerator transmutation of waste (ATW) technology.

$\label{eq:program} \textbf{PROGRAM BUDGET HISTORY} \ (a) \\ \textbf{(NUCLEAR WASTE FUND AND DEFENSE APPROPRIATION)} \ (b)$

(dollars in thousands)

	FY83	FY84	FY85	FY86	FY87	FY88	FY89	FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97 (g)	FY98 (g)	FY99 (g,h)	FY00 (g,i)	FY01	Total
OCRWM (By category)																				
FIRST REPOSITORY	192,537	246,560	235,246	386,050	386,446	256,000	223,700	177,816	155,180	165,550	244,697	259,509	375,270	250,000	299,459	267,710	281,879	281,175	313,542	4,998,326
SECOND REPOSITORY	12,322	16,270	24,709	35,500	19,800	3,500														112,101
WAST PROJECT	3,499	15,900	20,344	12,925	39,700	33,000	51,000	21,200	29,310	36,848	39,630	31,866	56,729	13,600	9,360	5,947	1,850	1,795	2,661	427,164
PROGRAM MANAGEMENT (c, d)	10,242	40,891	47,370	64,562	53,054	67,500	77,132	69,040	58,340	72,673	90,744	88,625	90,061	50,867	73,181	72,343	69,736	68,205	74,871	1,239,437
TOTAL (OCRWM) (e)	218,600	319,621	327,669	499,037	499,000	360,000	351,832	268,056	242,830	275,071	375,071	380,000	522,060	314,467	382,000	346,000	353,465	351,175	391,074	6,777,028
OCRWM (By Approp)																				
NWF Appropriation	218,600	319,621	327,669	499,037	499,000	360,000	351,832	268,056	242,830	275,071	275,071	260,000	392,630	151,067	182,000	156,000	164,465	239,601	191,074	5,373,624
Defense Approp (e)											100,000	120,000	129,430	163,400	200,000	190,000	189,000	111,574	200,000	1,403,404
TOTAL (OCRWM) (e)	218,600	319,621	327,669	499,037	499,000	360,000	351,832	268,056	242,830	275,071	375,071	380,000	522,060	314,467	382,000	346,000	353,465	351,175	391,074	6,777,028
NON-OCRWM																				
NRC Fees NWTRB NWN (f)							15,000	49,970 2,000 5,959	19,650	19,962 3,294	21,100 2,060	22,000 2,160 1,000	22,000 2,664 1,000	11,000 2,531 0	11,000 2,531 0	15,000 2,600 0	2,600	19,150 2,600 0	21,600 2,900 0	264,432 27,940 7,959
TOTAL (NON-OCRWM)							15,000	57,929	19,650	23,256	23,160	25,160	25,664	13,531	13,531	17,600	19,600	21,750	24,500	300,331

- (a) The source for each fiscal year's budget authority is the last Congressional Budget Request (CBR) which listed the BA for that year. For example, FY 1995 BA was last listed in the FY 1997 CBR.
- (b) This chart includes budget authority derived from the Nuclear Waste Fund which was appropriated for nuclear waste disposal, the Nuclear Waste Technical Review Board, the Nuclear Regulatory Commission, and the Nuclear Waste Negotiator. It also includes appropriations for defense nuclear waste disposal. This chart does not include non-Program budget authority such as the \$4M appropriated from general revenues in FY 1999 to assess accelerator transmutation of waste (ATW) technology nor sums appropriated for energy supply R&D activities conducted by OCRWM.
- (c) FY95 reflects the rescission of \$196K. FY96 reflects the rescission of \$559K by P.L. 104-134
- (d) Includes \$26K in FY95 and \$26K in FY96 from the DOE Departmental Administration appropriation funded from sources other than the NWF.
- (e) FY96 does not include \$85M appropriated for Interim Storage Facility (ISF), but not authorized. Does not include the \$5M in FY91 and \$7.5M in FY92 deposited into the nuclear waste fund by the Defense Environmental Restoration and Waste Management Program for the defense high-level waste disposal fee.
- (f) FY94 funded from sources other than the NWF.
- (g) First Repository and WAST Project support services funding is included in Program Management after FY 1996. FY98 reflects the rescission of \$4 million appropriated for NRC to use to license an MPC design.
- (h) The Emergency Steel Loan Guarantee and Emergency Oil and Gas Guaranteed Loan Act of 1999 (H.R. 1664) rescinded \$535,000 of FY 1999 funds from the Nuclear Waste Disposal Fund appropriation.
- (i) For FY 2000, Public Law 106-113 rescinded \$426,000 from the Defense Nuclear Waste Fund appropriation and \$899,000 from the Nuclear Waste Disposal Fund appropriation.